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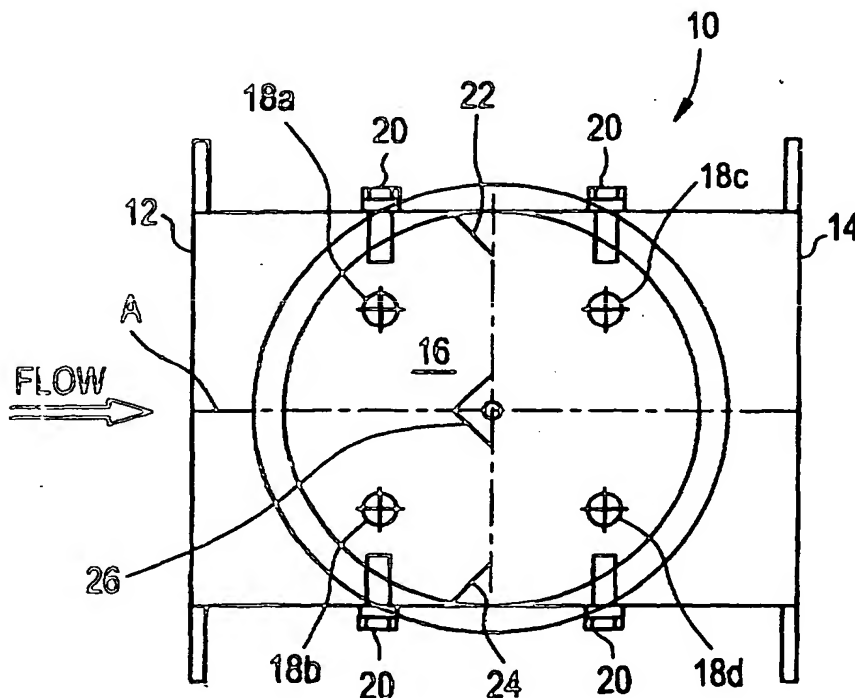
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(54) Title: APPARATUS FOR IRRADIATING FLUIDS WITH UV



(57) Abstract: An apparatus for irradiating fluids with UV including a reactor vessel (10) having a fluid inlet (12), a fluid outlet (14) and a reaction chamber (16); a plurality of UV lamps (18a-d) extending across the reaction chamber (16) and substantially perpendicularly to an axis (A) extending between the fluid inlet (12) and the fluid outlet (14); an upper fluid diverter (22) and a lower fluid diverter (24) extending across the reaction chamber (16) substantially parallel to the lamps (18a-d) and positioned downstream of at least one upstream UV lamp (18a, b), wherein the upper and lower fluid diverters (22, 24) are positioned to direct fluids toward at least one UV lamp (18c, d) downstream of the upstream UV lamp (18a, b).

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/10000

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C02F 1/32

US CL : 210/199

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 210/199, 739, 748, 143, 198.1, 205; 250/432R, 435, 436, 438; 422/24, 186.3

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
None

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
None

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,200,156 A (WEDEKAMP) 06 April 1993, col. 4 lines 13-62	1-11
Y	US 5,124,131 A (WEKHOF) 23 June 1992, col. 4 line 26 through col. 5 line 37	1-11
Y	US 3,637,342 A (VELOZ) 25 January 1972, col. 4 lines 22-37	1-11
Y	US 5,885,449 A (BERGMANN et al.) 23 March 1999, col. 3 lines 30-44	7
A, P	US 6,500,346 B1 (TAGHIPOUR et al.) 31 December 2002	
A, P	US 6,420,715 B1 (CORMACK et al.) 16 July 2002	

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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"Y"

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